

## Meeting Notice

This month's meeting will be held at our normal meeting location, Grace Presbyterian Church, 2100 Tice Valley Blvd., Walnut Creek, on July 20th at 8:00 PM.

The guest speakers will be:  
John Widener on Formal Traffic handling - Example ARRL forms will be handed out - John may have to be at work at 9:00 PM so the usual meeting format may be changed to accommodate this.

Jim Presley on the fantastic Field Day 79

Please, No Smoking inside the Church



Award Winning

# the CARRIER.....

Published Monthly by the Mount Diablo Amateur Radio Club

MDARC FIELD DAY CALL W6CX; 2M REPEATER WR6AHK; 220 REPEATER WR6ARG; MEMORIAL CALL SIGN W6LGW					
VOLUME XXVII			July 1979		
EDITOR: Bob Young, KC6F; 408 Turrin Dr, Pleasant Hill CA 94523; Phone 415 935-7556			No. 7		
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Secretary.....WB6FOA	Salley Nikkel	778 Harvard Dr	Pleasant Hill	94523	unlisted
Treasurer.....WA6OJT	Dick Webster	3415 Sweet Dr	Lafayette	94549	284-2046
Emergency Coordin'trW6LKE	Dwayne Eskridge	Box 5502	Walnut Creek	94596	932-3971
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Board Member.....WD6APL	Joe Campbell	3215 Caravelle Ct	Walnut Creek	94598	939-6567

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Deadline for next Issue: Articles by August 3, Want Ads by August 5  
Next Board Meeting at QTH of Ruth and Ted Durst W6PFW

M.D.A.R.C. GENERAL MEETING

JUNE 15, 1979

President Hank Herting W6AMH called the meeting to order at 8:05 p.m.

Secretary reported letter of approval for use of Mt. Diablo for Field Day operations as of May 21st.

Minutes of last meeting approved.

Dwayne, W6LKE told of his contacts with Chuck, WA6MWU in Holland.

Treasurers Report: \$706.17 savings \$899.34 checking and all bills are paid.

Emerg. Coordinator: W6LKE gave report of the activity at Sun Valley parking lot for the Coast Guard Boat display and the activity of our Amateurs there. Dwayne introduced Doug Smith, WA6GON who told us of his activities with the Red Cross, his plans for building the Communications Room, and of his need for lumber etc. Anyone who can help please contact Doug. These materials are deductible. Doug is doing a fine job and a credit to Amateur Radio and our Club---please contact him. This event will be in September.

A number of visitors introduced themselves, and a number of amateurs announced that they had up-graded.

Bob, KC6F said all is going well with the Carrier.

Ron, K6XC prize chairman told what the prizes are for the evening drawing.

Jim, KB6F, Membership chairman, informed the club we have 280 paid members. Field Day going well, He will contact the Chief Ranger Sat. a.m. to confirm the use of Mt. Diablo due to the Fire hazard. Publicity on Field Day will be in next Fridays Times.

WA6PNO and W6LKE showed some of the Logo to be put on shirts or jackets, also gave prices.

M.M.S. & C. the club allow \$100.00 for the Field Day budget. What is not used will be returned to the treasurer.

Dana, WA6ZGB announced 8 p.m. on Monday nites there will be a Tech. Forum.

Board Meeting Monday nite June 18th at W6AMH.

M.M.S. & C. that we adjourn for coffee at 8:50 p.m.

Dick WA6PJT called to order at 9:50 p.m. introduced Hal Mumford, W6CU who in turn introduced his brother Bill W2CU, (our member) from Morris Plains, New Jersey. He discussed a special 80-40 antenna, microwave radiation hazards and spark-gap transmitters and showing slides. A short question and answer period followed. Was enjoyed by all.

Prize drawing followed.

The meeting adjourned.

Respectfully  
submitted,

Salley Nikkel WB6FOA  
Secretary

M.D.A.R.D. BOARD MEETING JUNE 18, 1979

Board met at Q T H of President Hank Herting, With Beverly Herting hostess, Hank is in the hospital in S. F.

Beverly, we the Board do thank you and appreciate your graciousness in having us at this time. The very delicious refreshments were prepared for us by Beverly and Hanks son, Doug. Thank you Doug.

Dick Webster, WA6OJT called the board to order at 8:10 p.m. the following board members were present: WB6FOA, W6LKE, and W6PFW. The members present were: KC6F, K6IMV, W6LKM, Carol Lortsher (just passed her Novice Code, Cong. Carol), W6CU, KB6F, WB6OFH, WB6AEG, and WA6JLF.

Secretary Report: Letter read from Ken Durkee, K6OE, thanking the Club for card sent while in Hospital.

The minutes were approved as written in the Secty, book.

Treasurers Report: Same as Friday nite June 15th.

Emerg. Coordinator: Dwayne, W6LKE the next club involvement will be the Walnut Festival in September. Doug



JUNE 18, 1979 Board Meeting Cont.

Emerg, Coordinator: Dwayne, W6LKE  
the next club involvement will be the  
Walnut Festival in September. Doug  
Smith WA6GON is the Emerg. Coord.  
Liaison to the Red Cross. Parky, K6IMV  
R A C E S

Prize Chair. Ron K6XC, reported  
paid out for meeting June 15th drawing  
\$56.34 bal. of \$9.79 Received at door  
6/15 \$75.75. Ron was complemented by  
the Board for doing a good job, it is  
appreciated.

The following reports were not  
available due to the absence of the  
various chairman: Education Comm.,  
T V I, The Kilroy Key, and the antenna  
proposal for the county ordinance.

The new applicants were voted in as  
members. Our total paid membership is  
now 280. Reported by the Membership  
Chair. Jim KB6F.

Jim, KB6F reports all is go for  
Field Day on Mt. Diablo, Chief Ranger  
has granted the club permission even if  
the park is closed. All members may  
enter North gate if Park is closed.  
Gates open 6 a.m. close 6 p.m. We will  
have plenty publicity via the C.C.  
Times.

M.M.S. & C. authorizing Dwayne,  
W6LKE be allowed up to \$50.00 in the  
purchase of transfers available to the  
board members to purchase for shirts of  
jackets.

Next Board Meeting: Q T H of Ruth  
and Ted Durst, W6PFW 9 San Ardo Ct; WC  
July 23, 1979.

M.M.S. & C. to adjourn.

Respectfully  
Submitted,

Salley Nikkel WB6FOA  
Secretary

\* \* \* \* \*

Guest Speakers:

John Widener: Formal Traffic  
handling

Jim Presley: Field Day 79

LETTERS TO THE EDITOR

The following letter is in response to  
the May president's Corner-

Dear Mr. President:

Talk about those funny calls!

There are still a few of us around  
who remember the days when you heard a  
"W6" and knew he was from California,  
and likewise for other call districts.  
On CW a "W" was always followed by a  
number - easy to tell stateside DX. It  
was bad enough when the K calls came  
along - then you had to pay a bit more  
attention.

Imagine my dismay when, after a  
hiatus of 25 years or so, I heard  
strange calls like WA6NTG, WB6NMU, and  
more recently KA6ECK!!! When N6DN  
showed up on two along with VE2AQV I  
thought there must be some new form of  
VHF propagation. And too, your terri-  
tory was protected since visiting hams  
had to sign slant six or get a six call  
if they were to be here permanently.

Time was when KB6F was Baker Island  
and KC6F would be the Carolines. And  
AI6V would be some kind of rare DX  
instead of a strong local. In the  
"good old days" a ham was known by the  
rocks he owned and the last letters of  
his call, i.e. 6AMH, 6BF and so forth.  
His frequency was his spot and "two  
letter" call holders were venerated.  
CQ was always followed by "and tuning".  
You would select from those calling by  
knowing from the call where they were.  
Life was simpler then. Funny call  
signs indeed!

73 and Gud Luk,

don, W6EEN

\* \* \* \* \*  
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\* PRIZES \*  
\*  
\* Another great set of surprise  
\* goodies will be raffled at the  
\* meeting..... \*  
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## The President's Corner

Even though second hand, all reports I have received indicate Field Day to be the success expected. I certainly missed being there, and am already looking forward to taking part in a similar exercise next year. More on Field Day in other parts of this missive.

We have other successes behind us this year, lets add another to the list with a bang-up MDARC Family Picnic. Tentative date and place, Aug. 11th or 19th, Larkey Park, Pleasant Hill.

We plan to have games for all ages, door prizes for same, cold watermelon, and a tailgate flea market in the parking lot for those so inclined.

It has been said the MDARC runs itself. This is only partly true, there are many members keeping the main cogs turning and as you may anticipate this is a pitch for some more cog turners.

From the top we need a picnic chair-person or persons. We would, I believe also need someone to be responsible for each of the sub groups, games, flea market, etc.

Let's make this a bang-up family affair, the park lends itself to our needs, swimming is available, bring the old ball and mitt, the tattered football and relive your youth. I believe we can set up for volleyball and badminton. So there will be ample opportunity to stretch those old muscles. Please call Hank at 935-4032 with your suggestions, ideas and offers of help.

W6AMH

\* \* \* \* \*

### KUDO COLUMN

The Kudo Column is going to Kop out this month. With all those responsible for the successful Field Day effort, attempting to single out any one person or even listing calls without missing someone is high on impossible, so tnx to all who participated.

\* \* \* \* \*

### FIELD DAY 79

I don't have final scores in as yet, but from the Bands that I do have, and preliminary scores from other Bands, it looks like W6CX/6 is going to walk away with the Battery Powered

7A class with a First place. We won't know until November or December but with the estimated 2,000 QSO's we should have a very good shot at it. We had no major problems and FD 79 went very well.

My many thanks to all who supported this year's effort and made it a success.

More on FD 79 at this month's general meeting.

73, Jim  
KB6F

\* \* \* \* \*

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## THE FISHER 80-40 ANTENNA

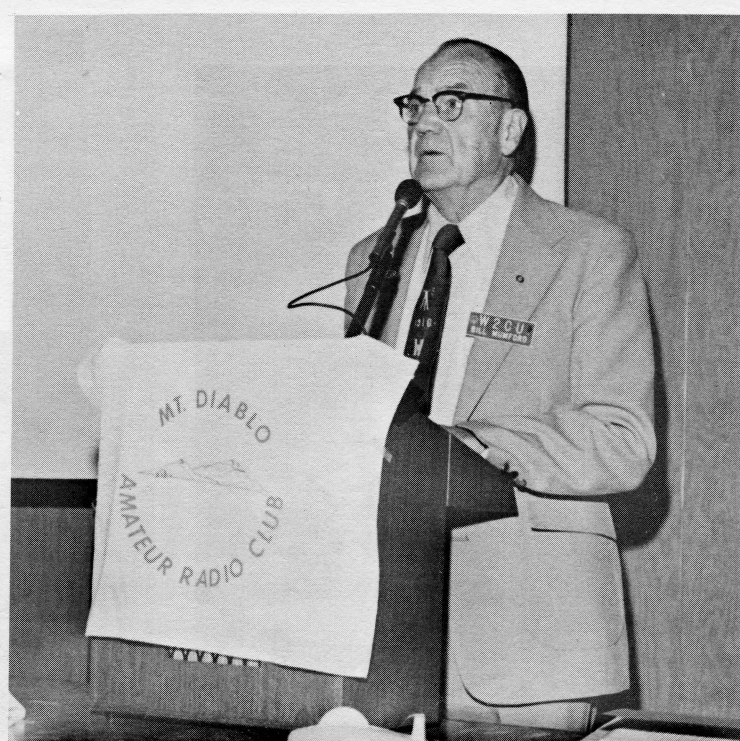
Recently, Bill Mumford, W2CU was trying to design an antenna that would have a reasonable SWR across the 75-80 Meter band. A Dipole or inverted V will usually have a band width of about 5% of the resonant frequency or 200 KHZ or less on 80 Meters. A band width of about 15% is needed to cover the 75-80 Meter band. A fellow professional engineer and radio amateur, Reed Fisher, W2CQB, suggested the following design.

The antenna is constructed using RG-8/U solid dielectric coaxial cable. Don't use cable with foam dielectric, it will not work. Single conductor wire is also used. The coaxial elements are shorted between the inner conductor and shield at the ends away from the

center. The two elements are  $1/4$  and  $3/4$  wavelengths long at 40 meters and thus act as  $1/4$  and  $3/4$  wavelength shorted stubs at 40 meters which means that the antenna would have a very high impedance at 40 meters.

Bill gave Royal Mumford, W3CU, this type of antenna for a christmas present recently. The antenna showed a SWR of 2:1 or less across the 80-75 meter Band.

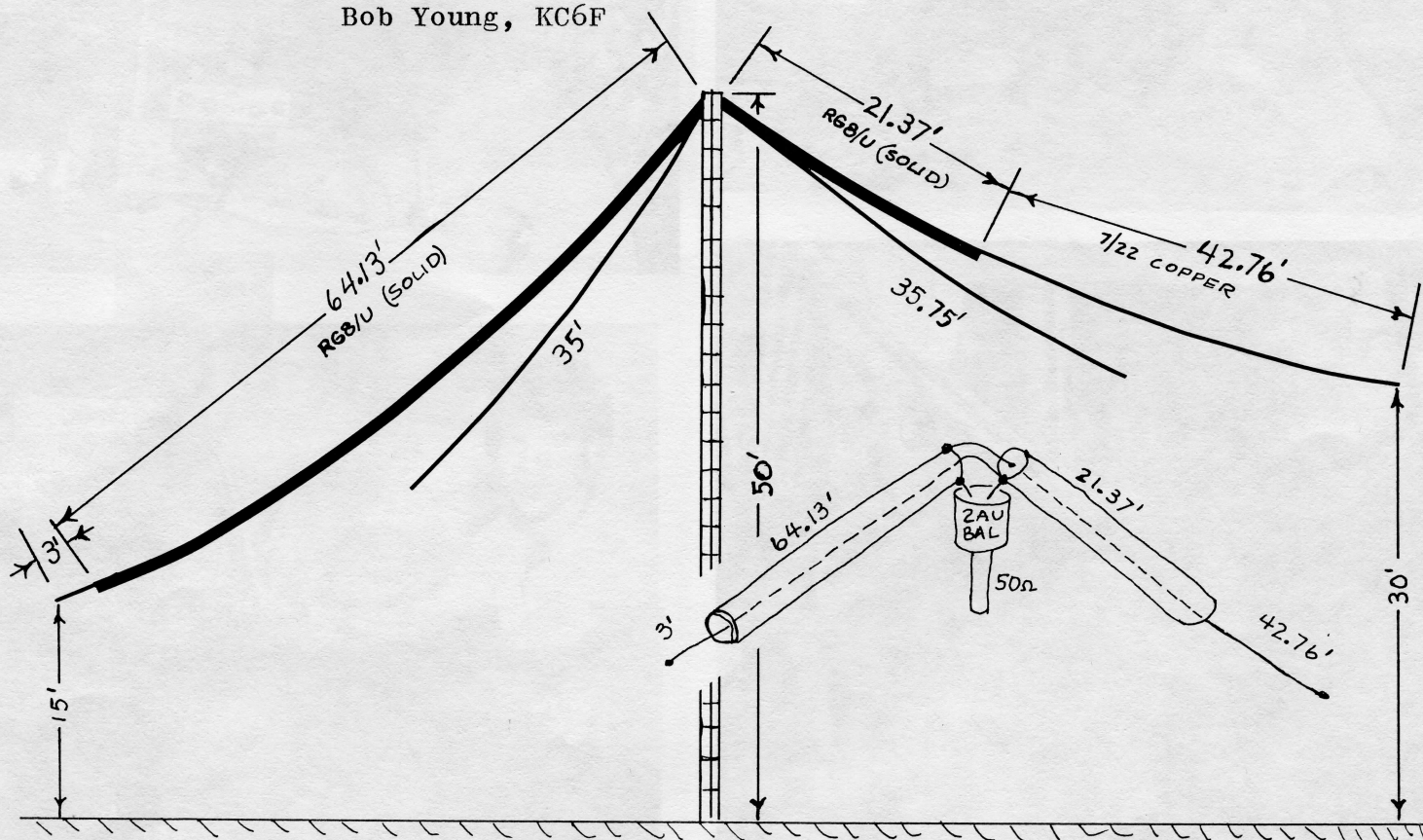
Thank you Bill, and Reed Fisher, for permission to publish this article on this antenna.



## Guest Speaker Bill Mumford, W2CU

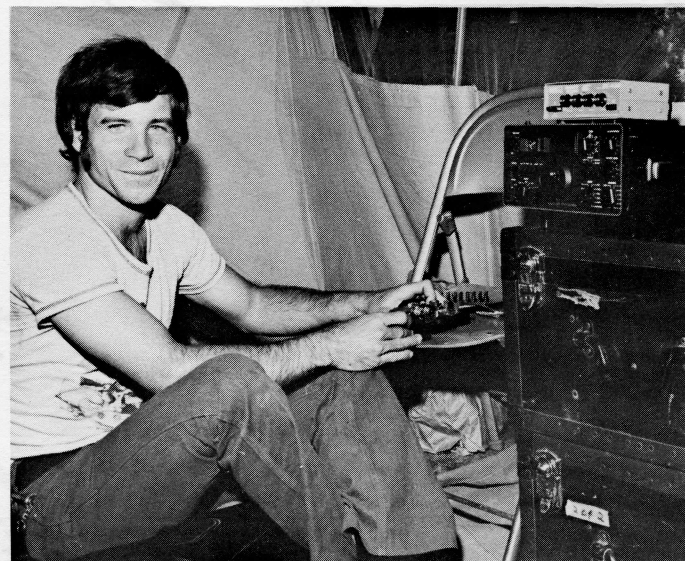
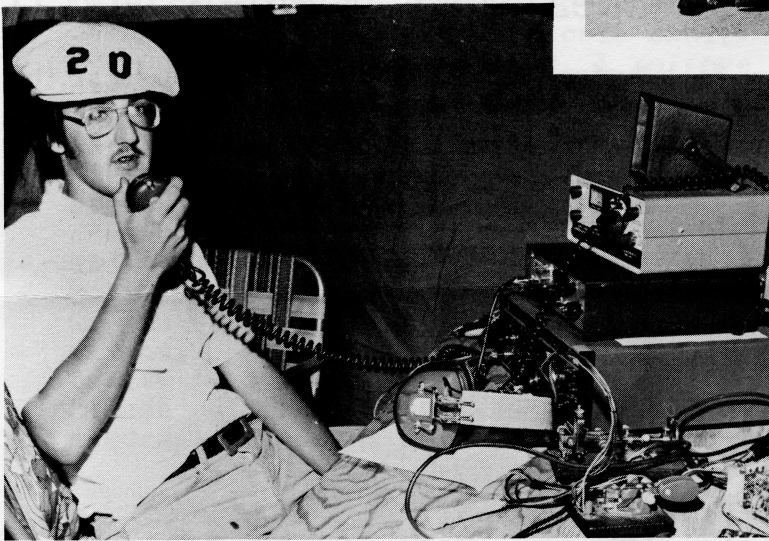
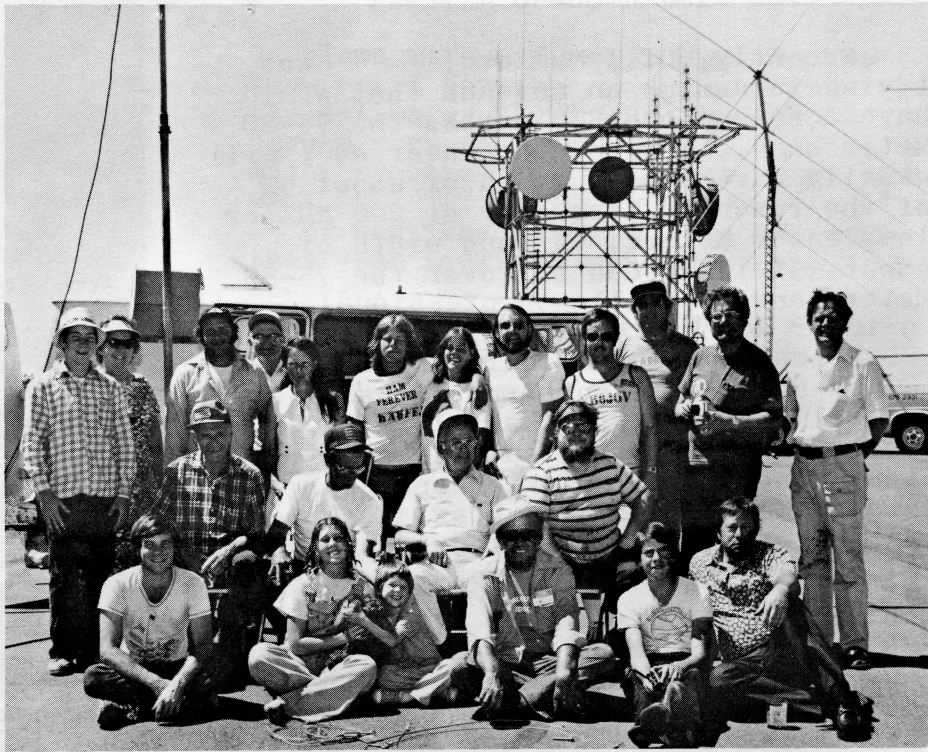
Bill Mumford, W2CU, shown above, speaker at the June club meeting. Bill's subject was Spark Gap Transmitters, Microwave Radiation Hazards and the 80-40 Antenna described below and to the left. Bill said it is not a good idea to transmit with your hand held with the "Rubber Ducky" antenna tip touching your eyeball. Thank you Bill, for your very informative discussion.

Bob Young, KC6F

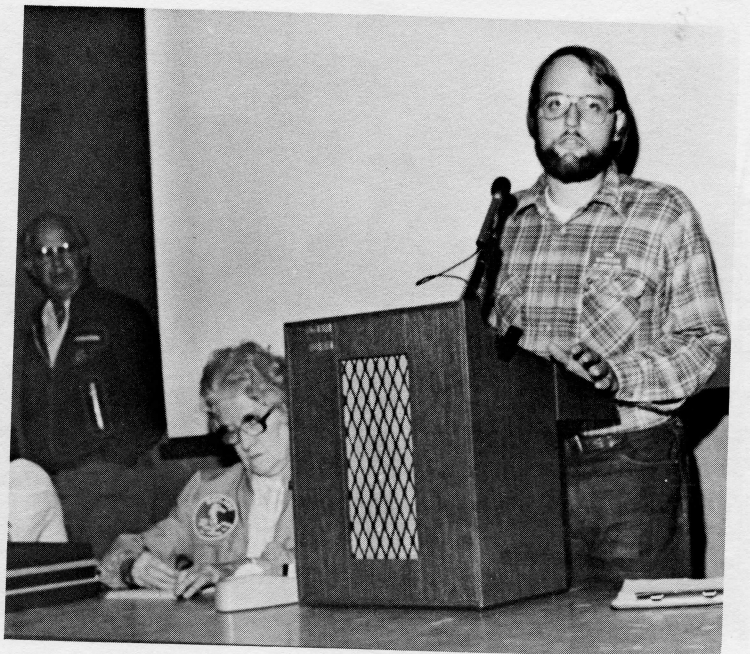
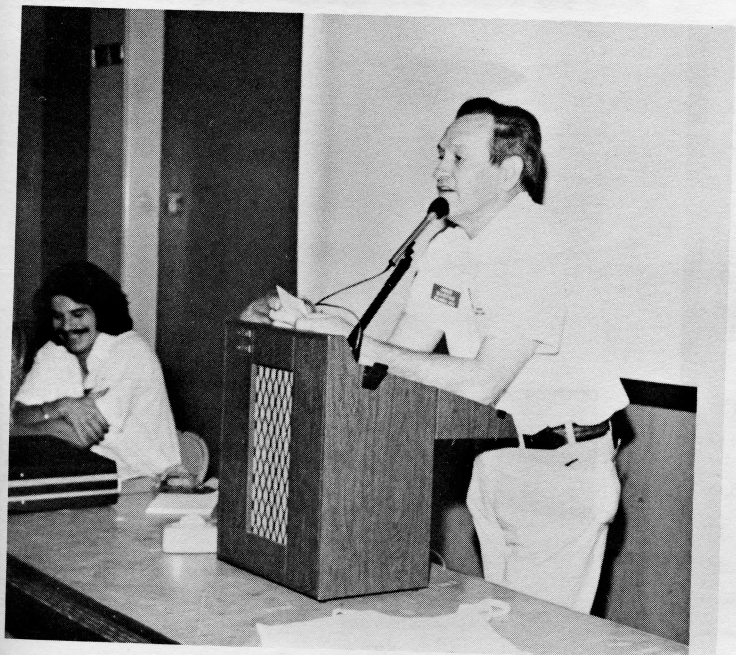
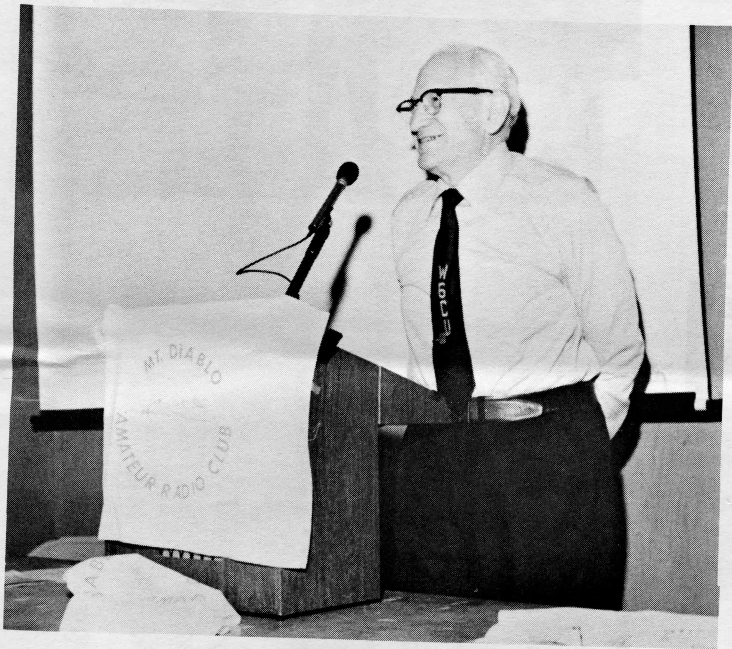
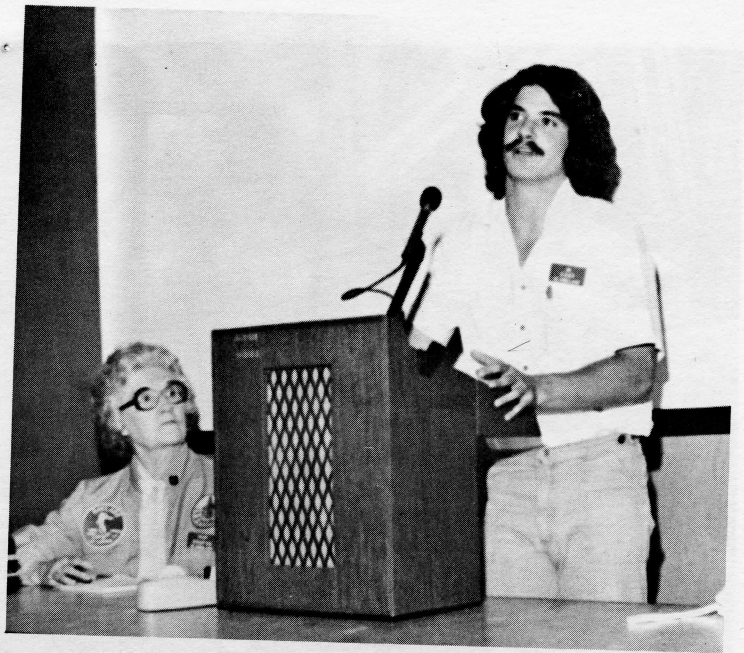
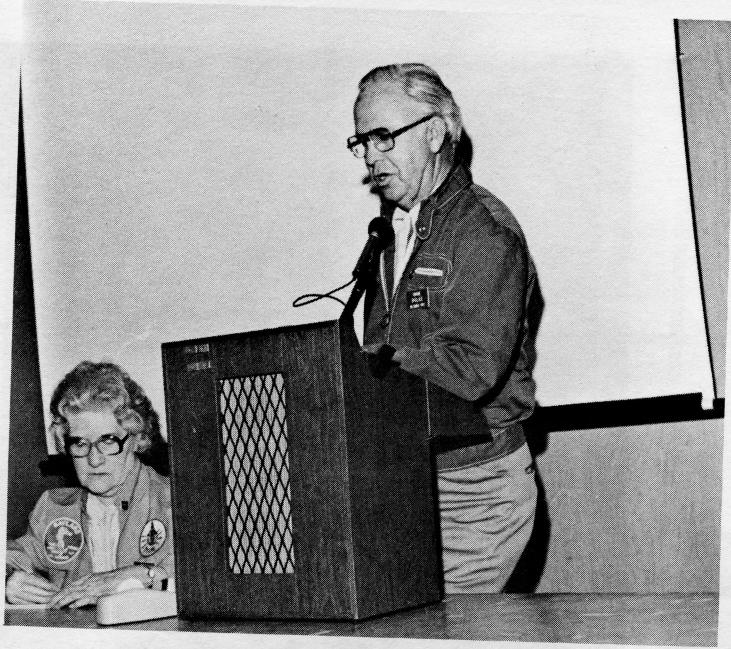


FISHER 40-80 ANTENNA AT W3CU

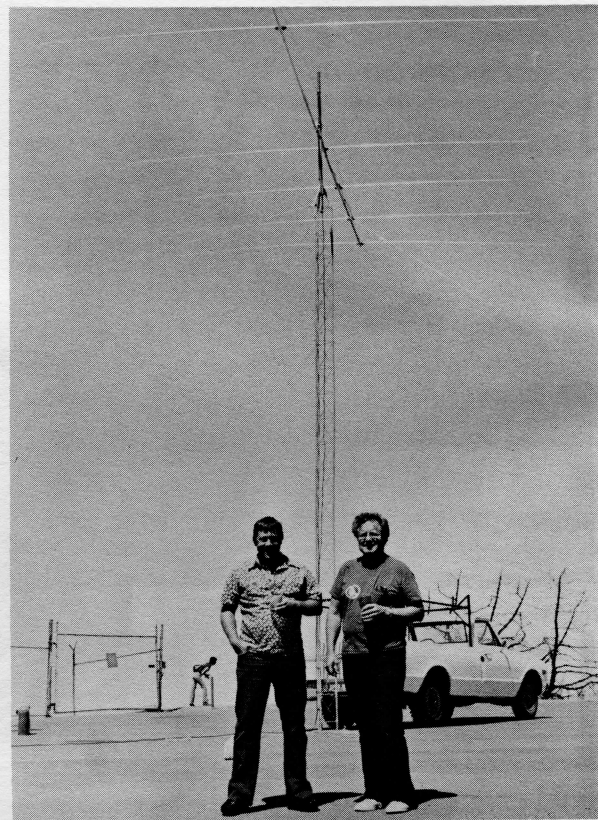




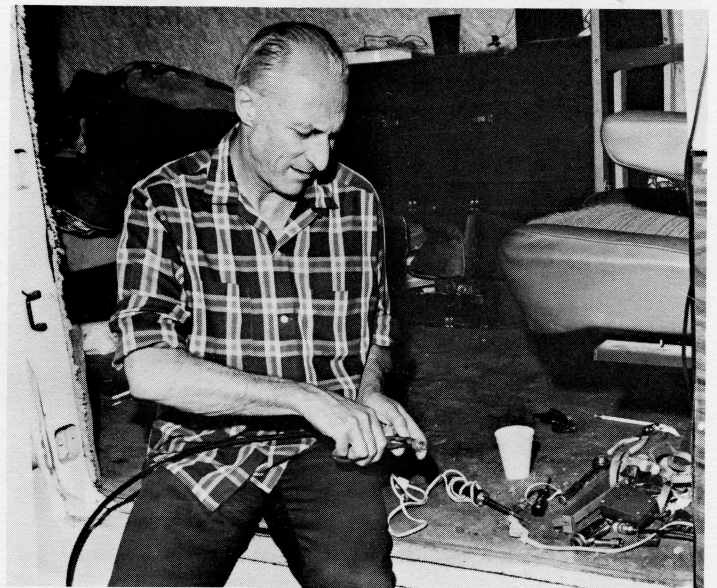
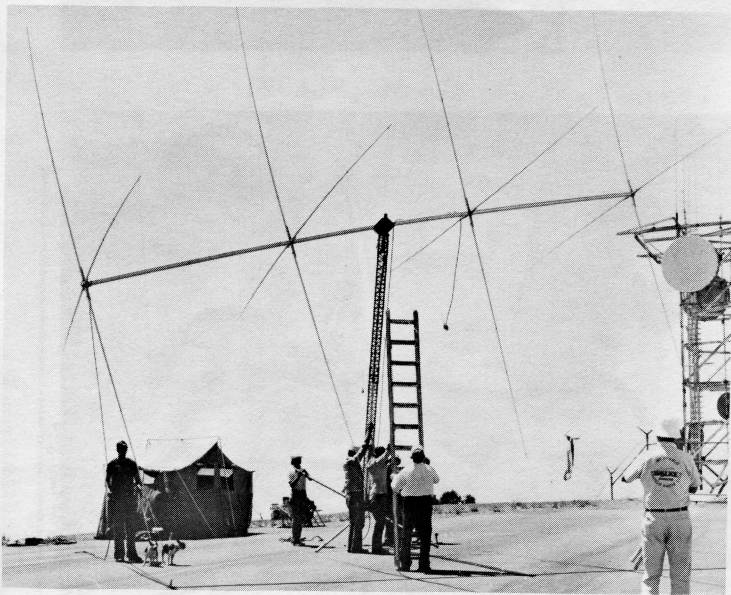
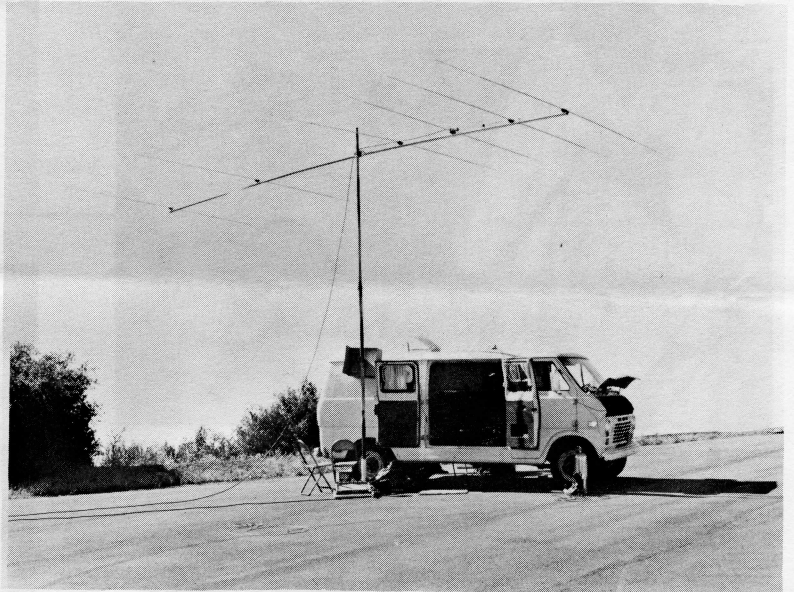
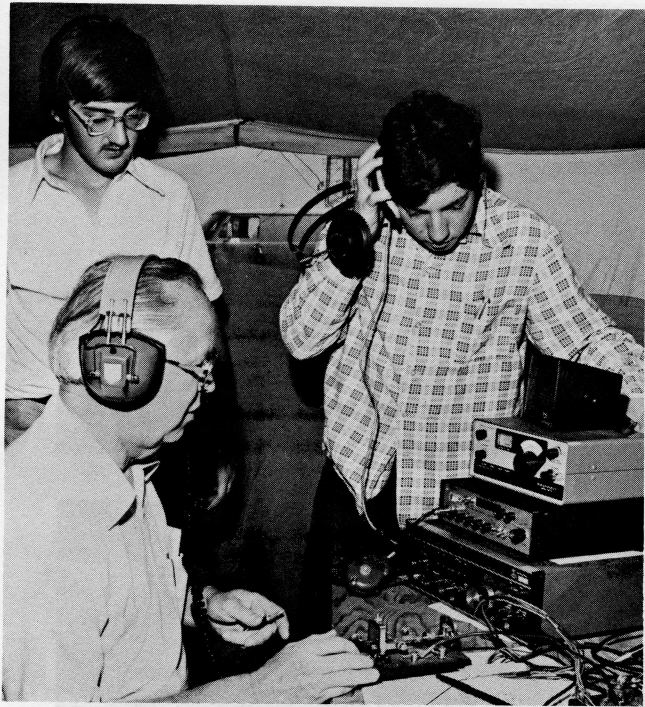




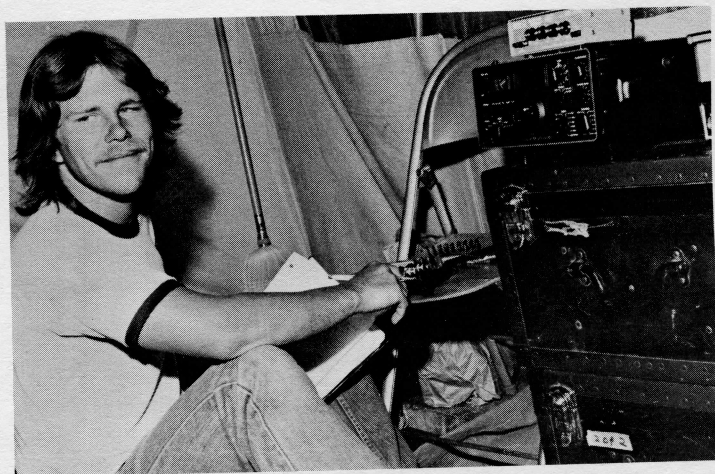
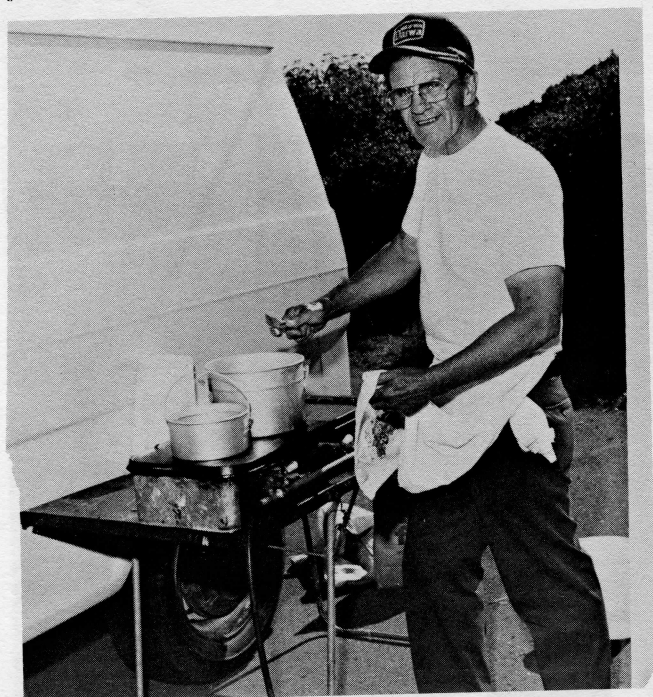
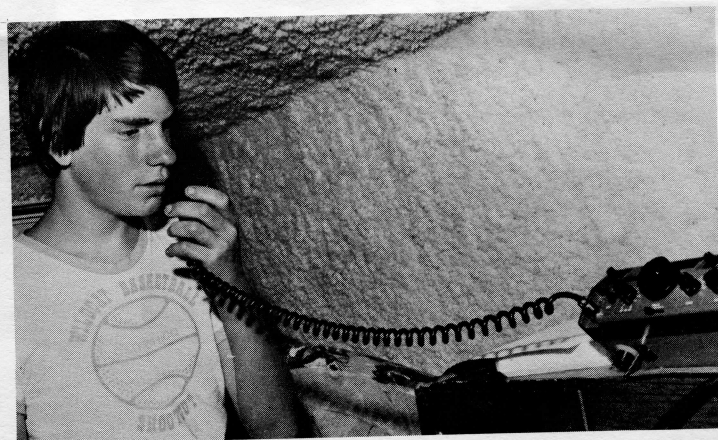
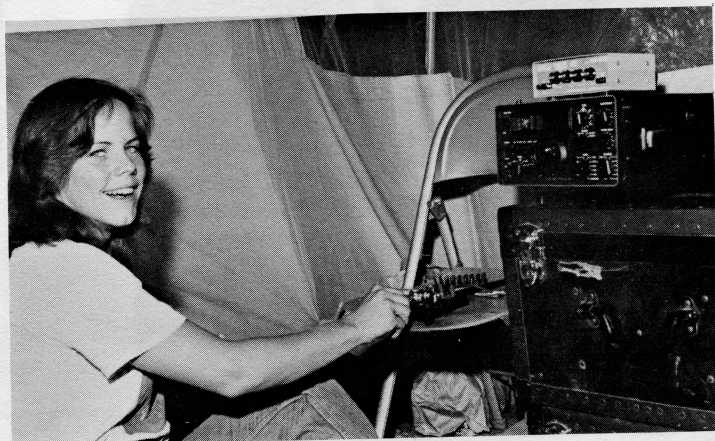
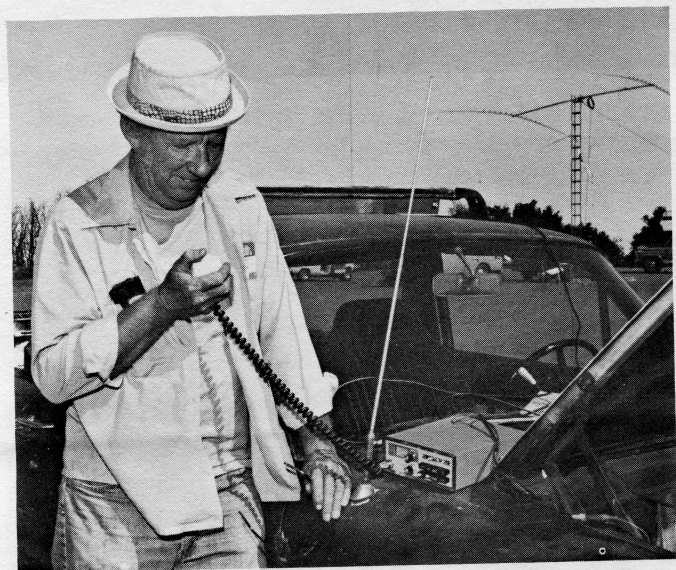
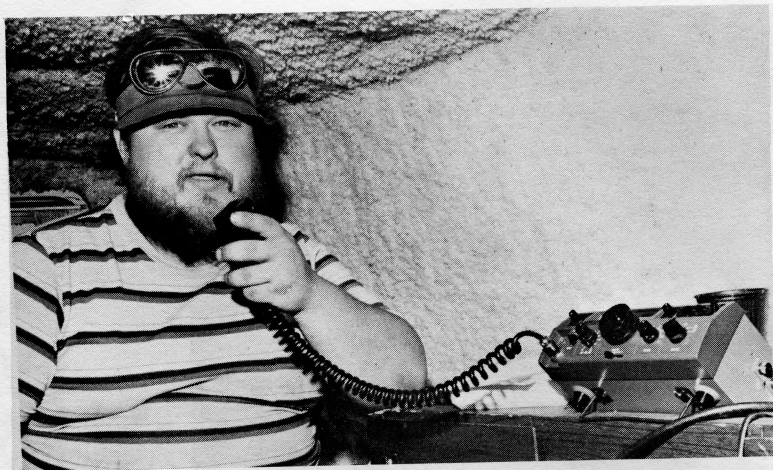
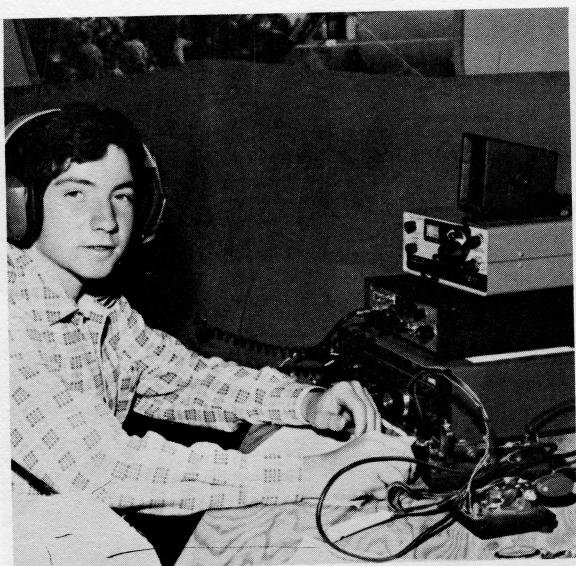














### TRAIL RIDE

Public Service Communications was provided for an endurance trail ride sponsored by the Contra Costa County Sheriff's Association on Mt. Diablo by the following MDARC members:

W6LKE, Dwayne Eskridge; WA6QAZ, Warren Sturgeon; WA6DKG, George Kirkman; WA6BOK, Dave Deas; WA6ADW, Jack Campbell; WA6OFT, Dave Greenhill; WA6HAM, Steve Overacker; W6UAW, Bob Cook

Communications were provided at one fixed control point and 8 mobile 4 wheel drive units to provide safety for the 110 horses and riders in the endurance race.

Six meter AM provided the basic communications from vehicle to vehicle and to the base. Each radio operator also carried 2 meter transceivers with magnetic mounts and used the K6POU/RPT repeater on the top of Mt. Diablo for backup communications.

When direct contact could not be made on 6 meters AM because of terrain

the K6POU repeater proved invaluable because it could be reached from all sides of Mt. Diablo.

The Sheriff's Posse and the members of the Communications team would like to thank the Rocky Ridge Repeater Group for their patience and understanding when we used the repeater for our important messages.

We did have to handle messages regarding picking up horses and riders at various points on the mountain when they could not go on. Steve, WA6HAM, came in to help in the afternoon when we needed to send another 4 wheel drive vehicle out to find a lost horse and rider. The lost rider eluded the search team and came in with her horse after 8 PM that night.

Many of the Communications crew stayed on that evening for a dinner and dance. I think all will agree that it was a valuable experience in handling messages for this event from 5 AM until after 8 PM. We should all be better operators for it.

Robert Cook  
W6UAW

### License Upgrades

The following Club members have advanced in the last three months:

To Novice: KA6FMV, Patricia; WA6FXD, Irvine

To Tech: WB6LMY, Claude; WD6ATJ, Paul

To General: KA6APK, Dave; N6BRW, Dennis; WA6RGT, John; WD6CLZ, Roger; WD6EMK, John.

To Advanced: WB6TEE, Don; WD6GKF, Ethan; KB6MN, Jim; WD6DUK, Mal; N6AJV, Fred; KB6NC, Wayne.

New Call: KB6OH, Jim (ex-WB6BBC)





## THE NEW WE-2000 WILSON-GOTT

I have a Wilson WE-800 2m radio. I recently put a TT pad in its speaker mike. This has been a very handy addition.

I'd like to describe here, briefly, a procedure to modify the radio for use on MARS. This gives its owners 2000 channels that it will receive and 3200 transmit frequencies as compared to the present. You'll be able to receive from 140 - 150 MHz inclusive.

No extra parts are needed. In fact, you'll have some left over.

First remove the top and bottom covers. Remove the front panel from the chassis with the four screws from the back of the front panel. At this point the radio should be treated gently. Next dismount the offset and 5 khz shift toggle switches from the front panel. As you do this, draw on a piece of paper the orientation of the backs of these switches so you can put them back the same way or so if you break any wires you won't be lost. Now dismount the thumbwheel switch assembly by removing the four screws that hold it on to the front panel. Beware not to lose the nuts and lock washers. Now disassemble the thumbwheels from each other. This is done by removing the rods with nuts on both ends that go horizontally through the switches. Examine the switches, the hundreds digit switch has two pins in it that stop its rotation at 4 and 7. If you slide the thumbwheel off of the switch shaft you can remove these pins. Replace the wheel by holding back the spring. Check to see that the switch switches properly. Reassemble the radio in the reverse order of what I just described. Be careful not to pinch any wires and get all hardware tight.

My radio needed no retuning to cover MARS but performance is not full spec out of band. Enjoy!

WA6KGI

EDITORS NOTE: Another interesting modification to this radio can be found on page 96 of 73 Magazine, June 1979, entitled "Charging up the WE-800" by K7CMS.

## Community Repeater - WA6WVH/RPT

This repeater is located on Smith Hill (el. 600 ft.) and provides excellent 2 meter coverage around the Diablo Valley and can occasionally be worked throughout the bay area and the Sacramento Valley.

About the repeater: The machine is on from morning until 11 PM every day of the week. A 450 MHz repeater/remote also located on Smith Hill is usually run on a 24 hour basis. If by chance you have a 450 radio, give me a call and I'll fill you in on its operation. Feel free to chat on either repeater. Should you ever need to report an accident or hazardous road condition while you are mobile, just request that a member station bring up the patch for you.

Stop by and say hello. Repeater frequencies (2M) are 147.135 in/147.735 out.

Peter Danzig  
WA6WVH

\* \* \* \* \*

Joe Rudi (WA6PVA) and family have a new son, Shaun Matthew, born July 3rd, and weighing in at 8 lbs and 13 oz.

CONCORD - SINCE 1970

# CIRCLE "R" PHOTOGRAPHERS - STUDIO

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## W6LGW MEMORIAL STATION

Plans for constructing the interior layout of the Red Cross Disaster Communications Center, Diablo Chapter, have been made. Generous donees like Pearson Lumber in Pleasant Hill, have provided building materials free of charge to the Red Cross making a long time dream approach completion.

As Red Cross liaison, I cannot over-emphasize the importance of this communications center and the active participation of area amateurs as communicators working for the Red Cross. The Red Cross Directors are extremely enthusiastic over our expressed desire to volunteer. Specifically, they are pleased that volunteer amateur radio operators will assume duties that can free needed Red Cross staffers in time of need. We will operate their radios and our own to their advantage and they know it!

Gathering building materials on a donation basis is a slow and tedious process. I am continuing to see that MDARC gathers as much material as possible on a free basis.

The center may however require some monetary assistance. The Red Cross does have a fund dedicated to the purchase of radio equipment for the center. We should not have to dip into this fund for nuts and bolts.

Your money or material contributions to the Red Cross will make the centers construction move that much faster. Any extra collections will transfer to the equipment fund (ie. antennas and radios). Please contact Dwayne Eskridge, W6LKE, or myself for further information. Your donation will be to the Red Cross, not MDARC, therefore tax deductible.

73, Be prepared  
Doug Smith  
WA6GON 686-3336

\* \* \* \* \*

### IN MEMORIUM

Jack King, WB6TVY, who passed away May 29, 1979, a club member. Deepest sympathy to his family and friends.

## THE BASE STATION

### SUMMER SALE

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9-U

12 L

7-T

4 A To solve a cryptogram you must determine which letters the various cryptogram "letters" represent.

E S O C C U B T D U G H  
 Q R M H L ' Z L A G Y L  
 B T C U L  
 A C H L T C B L C U - A L T C S M F.  
 C U L Y R T H U G S O L V  
 C G X L R A G N B T  
 C U L H U L L K B O T G H  
 R V B N B C B T C U L  
 A G Y W S C L M.

### Last Month's Solution

A bit of Philosophy: There is so much good in the worst of us and so much bad in the best of us, it's rather hard to tell which of us ought to reform the rest of us.

From:  
 Mt. Diablo Amateur Radio Club, Inc.  
 P.O. Box 23222  
 Pleasant Hill, Calif. 94523

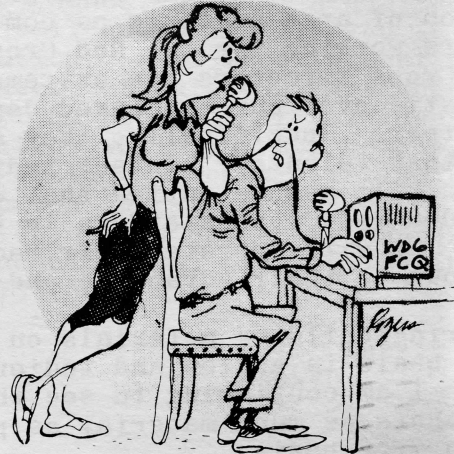
Affiliated with the ARRL  
 Affiliated with the American Red Cross  
 Member: Amateur Radio News Service

**FIRST CLASS MAIL**

Arv and Ruby Lankford (WB6KWW and WA6KWX) have moved into their home in Tennessee but don't have high frequency antennas up yet. They hope to be in touch with MDARC members soon via amateur radio.

Their address and telephone are:

1849 Cornelia Lane  
 Memphis, Tennessee 38117  
 (901) 685-2871



"OK, so tomorrow you get your own transceiver!"

